



LEADER'S GUIDE

TO PREVENTION OF COLD INJURIES DUE TO EXPOSURE TO TEMPERATURES BELOW 50° F

INFORMATION ON THIS CARD IS PROVIDED TO ASSIST LEADERS IN RISK DECISION MAKING AND CONTROL DEVELOPMENT AS PART OF THE RISK MANAGEMENT PROCESS. RISK DECISIONS AND CONTROLS SHOULD BE DEVELOPED FOR ALL TRAINING. LEADERS MUST ENSURE THAT THESE RISK DECISIONS/CONTROLS ARE IMPLEMENTED INTO UNIT TRAINING PLANS AND THAT TRAINING IS SUPERVISED.

RECOMMENDATIONS

		MINIMUM UNIFORM		OTHER FACTORS
WIND CHILL CATEGORY (SEE REVERSE)	FIELD UNIFORM	PT UNIFORM	OFF DUTY ACTIVITIES	
LITTLE DANGER	POLY PRO (T& B) ECWCS** (T&B) BALACLAVA TRIGGER FINGER MITTENS GORE-TEX BOOTS*	PFU SWEATS BLACK KNIT CAP BLACK GLOVES W/INSERTS	COAT HAT EAR PROTECTION GLOVES BOOTS	-- INCREASE LEADER SURVEILLANCE -- NO FACIAL CAMOUFLAGE -- INCREASE HYDRATION. -- PROVIDE WARM-UP AREAS WITH HOT DRINKS, ETC. -- SKIN COVERED AND DRY
INCREASING DANGER	POLY PRO (T& B) COAT & TROUSER LINERS ECWCS** (T&B) BALACLAVA/PILECAP ECW MITTENS BOOTS ECW (TYPE I)	PFU SWEATS POLY PRO (T&B) BALACLAVA TRIGGER FINGER MITTENS	COAT HAT EAR PROTECTION GLOVES BOOTS	-- RESTRICT NON-ESSENTIAL OUTDOOR TRAINING. -- LOW ACTIVITY: 30-40 MIN WORK CYCLE. -- SEDENTARY ACTIVITY: 15-20 MIN WORK CYCLE. -- USE BUDDY SYSTEM. -- NO EXPOSED SKIN
GREAT DANGER	POLY PRO (T& B) SHIRT, COLD WX TROUSER LINER ECWCS** (T&B) BALACLAVA/PILECAP ECW MITTENS BOOTS ECW (TYPE II)	PFU SWEATS POLY PRO (T&B) BALACLAVA TRIGGER FINGER MITTENS	HEAVY COAT LONG UNDERWEAR HAT & SCARF MITTENS CW BOOTS	-- CONSIDER INDOOR TNG. -- HIGH INTENSITY ACTIVITY: <15 MIN WORK CYCLE. -- CONSIDER CANCELING LOW OR SEDENTARY ACTIVITY OUTDOOR TNG -- COVER ALL EXPOSED SKIN

* GORE-TEX BOOTS = Matterhorn/Rocky Mountain/or similar GORE-TEX insulated leather boots

** ECWCS = Extended Cold Weather Clothing System (GORE-TEX)

DIVISION SAFETY OFFICE



WIND CHILL CHART FOR FAHRENHEIT TEMPERATURES (°F)

ACTUAL THERMOMETER READING (°F)

ESTIMATED
WIND SPEED
(IN MPH)

	50	40	30	20	10	0	-10	-20	-30	
	-40	-50	-60							

EQUIVALENT TEMPERATURE (°F)

CALM	50	40	30	20	10	0	-10	-20	-30	-40	-50	-60
5	48	37	27	16	6	-5	-15	-26	-	-47	-	-60
10	40	28	16	4	-9	-21	-33	-46	36 -58	-70	57 -83	-95
15	36	22	9	-5	-18	-32	-45	-58	-72	-85	-99	-112
20	32	18	4	-10	-25	-39	-53	-67	-82	-96	-110	-124
25	30	16	0	-15	-29	-44	-59	-74	-88	-104	-118	-133
30	28	13	-2	-18	-33	-48	-63	-79	-94	-109	-125	-140
35	27	1	-4	-20	-35	-51	-67	-82	-98	-113	-129	-145
40	26	1 10	-6	-22	-37	-53	-69	-85	-100	-116	-132	-148

WINDS GREATER
THAN 40 MPH HAVE
LITTLE ADDITIONAL
EFFECT

LITTLE DANGER

<5 hrs with dry skin

Greatest hazard from false security

INCREASING DANGER

Exposed flesh may freeze within 1 minute

Trenchfoot and Immersion foot may occur at any point on the

GREAT DANGER

Exposed flesh may freeze within 30 seconds